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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 900093.00017	FOR FURTHER see Form PCT/ISA/220 ACTION as well as, where applicable, item 5 below.				
International application No. PCT/US04/19467	ternational filing date (day/month/year) (Earliest) Priority Date (day/month/year) 18 June 2004 (18.06.2004) 18 June 2003 (18.06.2003)				
Applicant THOMAS INDUSTRIES, INC.					
This international search report has been prepared by this International Scarching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of					
Basks of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). By With resurd to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No.					
Certain claims were found unsearchable (See Box No. II) Unity of invention is lacking (See Box No. III) With regard to the title. the text is approved as submitted by the applicant. the text has been established by this Authority to read as follows:					
	mitted by the applicant. d, according to Rule 38.2(b), by this Authorione month from the date of mailing of this ir				
as suggested by the as selected by this as selected by this	Authority, because the applicant failed to sup Authority, because this figure better characte published with the abstract.				

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/19467

Date of mailing of the international search report

11 MAY 2005

Authorized officer Sharm 7. There for

Thomas E. Lazor

Telephone No. 703-308-0975

			101/000/17/0/			
	SSIFICATION OF SUBJECT MATTER					
IPC(7) US CL	: F01B 13/04 : 92/12.2					
	o International Patent Classification (IPC) or to both r	national c	classification and IPC			
	DS SEARCHED					
	ocumentation searched (classification system followed 92/12.2, 71; 91/499; 74/60	by class	ification symbols)			
Documentat	ion searched other than minimum documentation to th	e extent	that such documents are include	d in the fields searched		
	lata base consulted during the international search (name, piston, swash, wobble, ball, socket, spherical, be		ta base and, where practicable, s	search terms used)		
C. DOC	CUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where a	рргоргіа	te, of the relevant passages	Relevant to claim No.		
Y	US 2003/0002990 A1 (REITZIG) 02 January 2003	1,10				
Y	US 6,450,777 B2 (LYNN et al.) 17 September 200	1,10				
A	US 6,439,857 B1 (KOELZER et al.) 27 August 20	2, 4, and 5				
A	US 5,079,996 A (ABOUSABHA et al.) 14 January	2, 4, and 5				
Α	US 5,007,385 A (KITAGUCHI) 16 April 1991 (16.04.1991), figure 5			1, 2, 4, and 5		
Α	US 4,934,253 A (BERTHOLD et al.) 19 June 1990 (19.06.1990), figure 1			1, 2, 4, and 5		
Furth	er documents are listed in the continuation of Box C.	П	See patent family annex.			
•	Special categories of cited documents:	"T"	later document published after the int			
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Commissioner for Patents

14 March 2005 (14.03.2005) Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US

Date of the actual completion of the international search